

FIG. 10-3250660

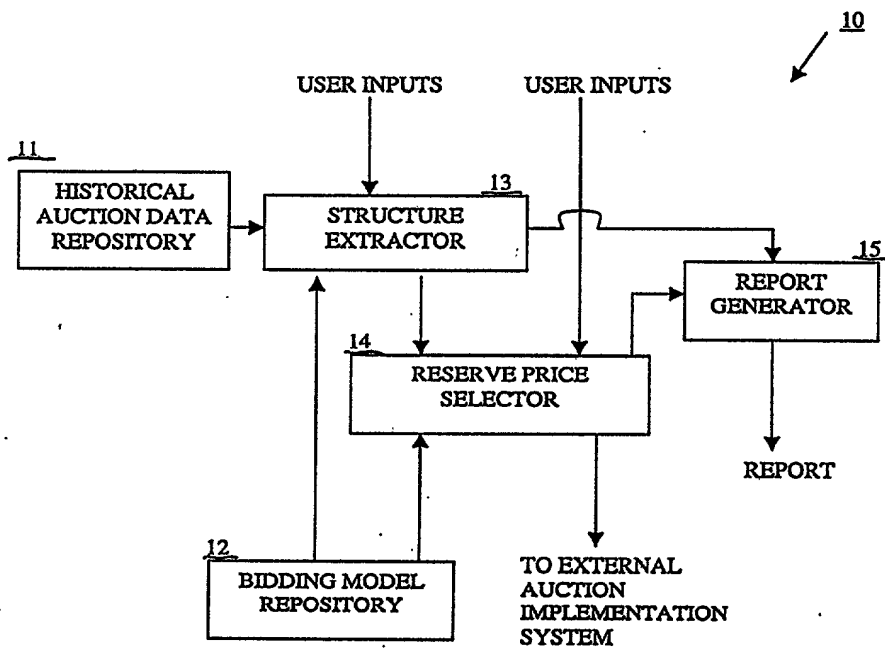


FIGURE 1

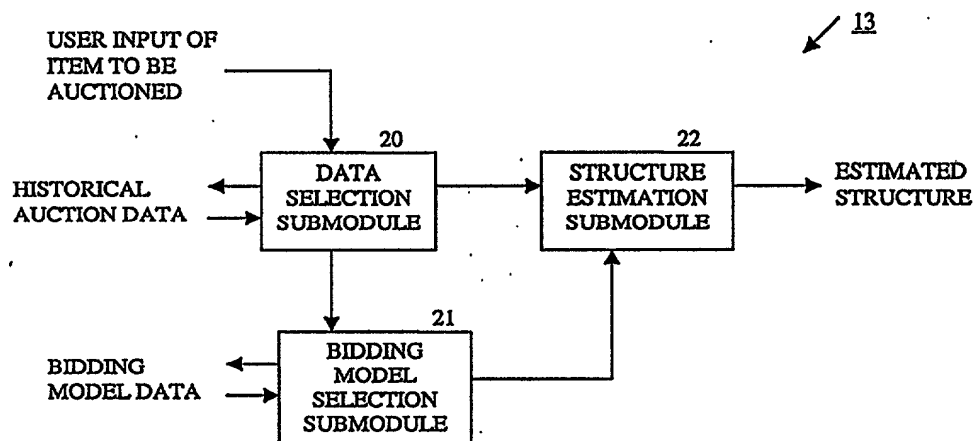


FIGURE 2

FIG. 3

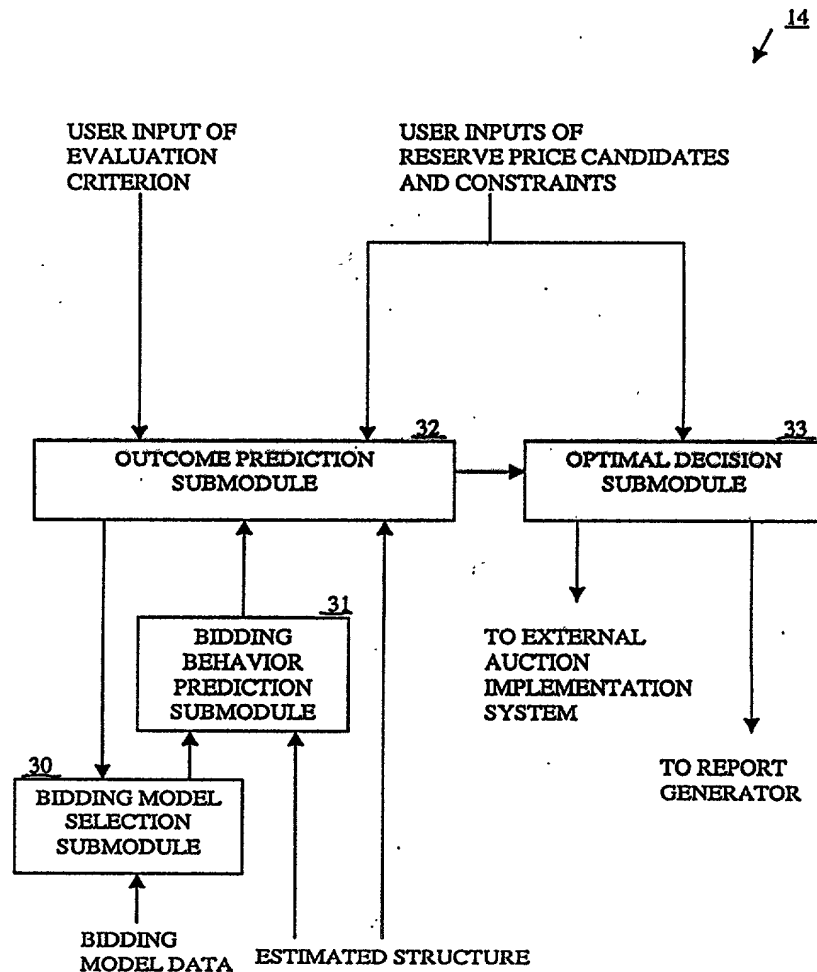


FIGURE 3

DATA SELECTION SUBMODULE

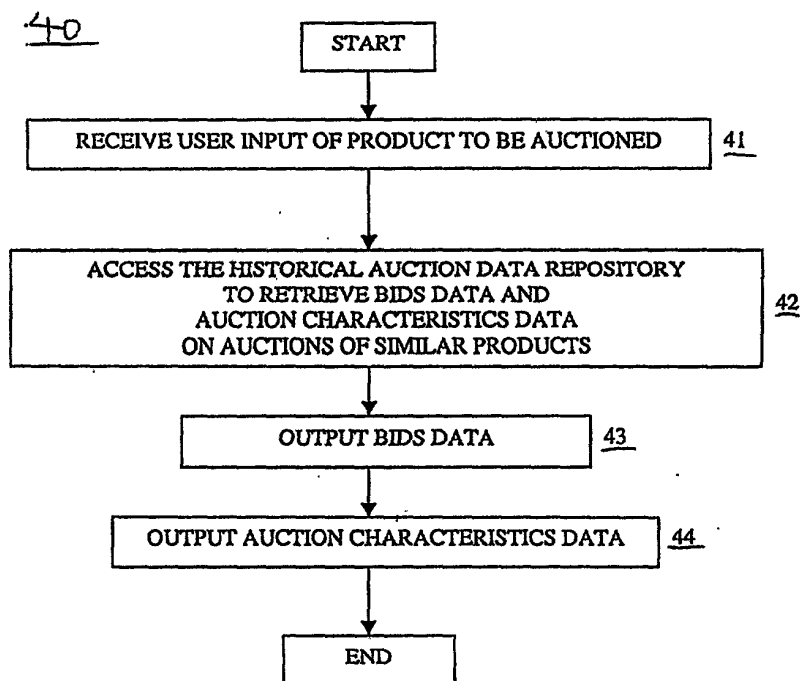


FIGURE 4

BIDDING MODEL SELECTION SUBMODULE

So

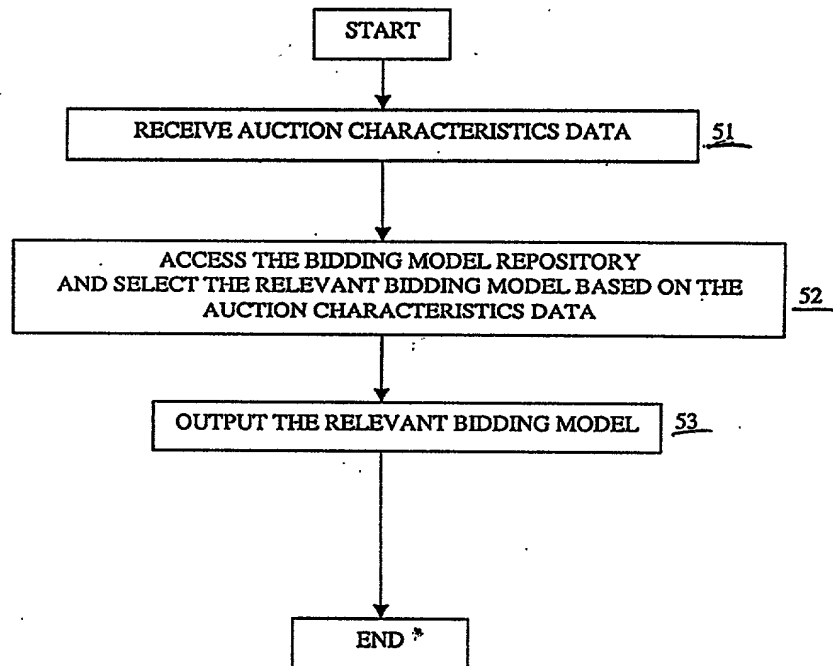


FIGURE 5

STRUCTURE ESTIMATION SUBMODULE

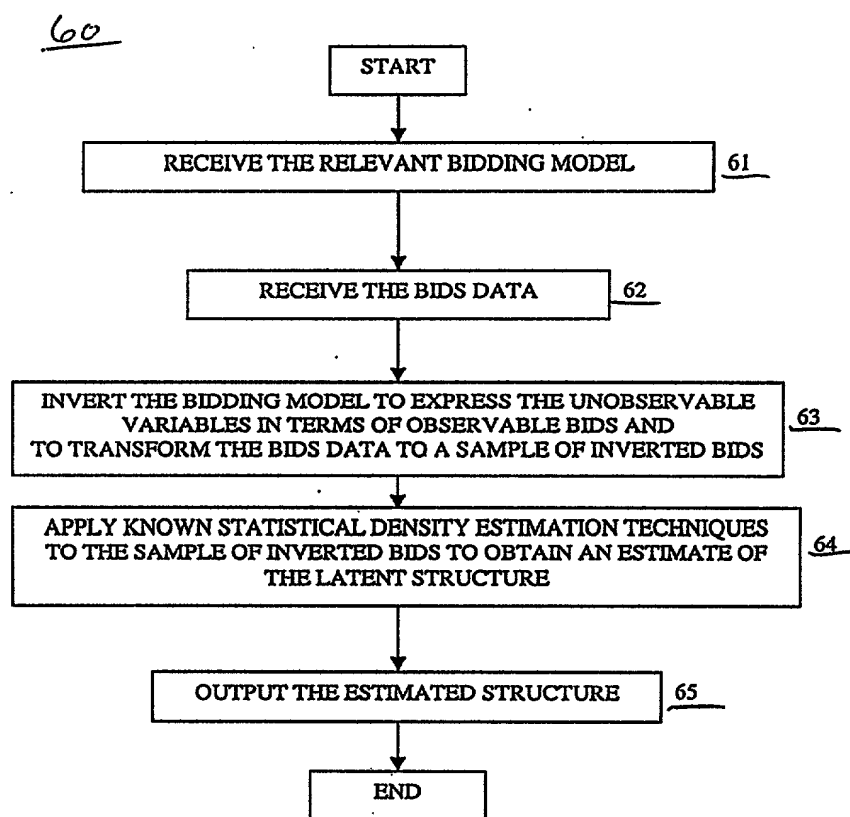


FIGURE 6

BIDDING BEHAVIOR PREDICTION SUBMODULE

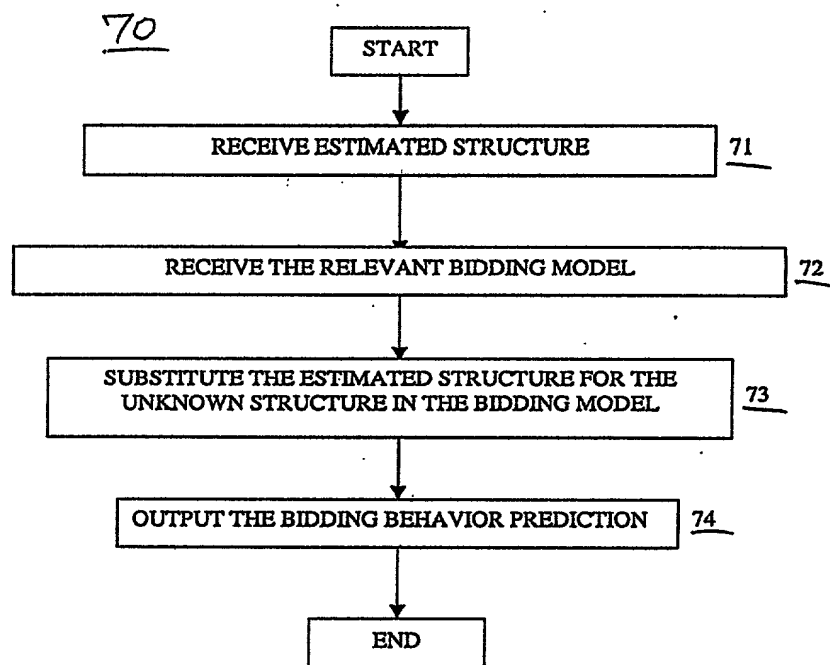


FIGURE 7

OUTCOME PREDICTION SUBMODULE

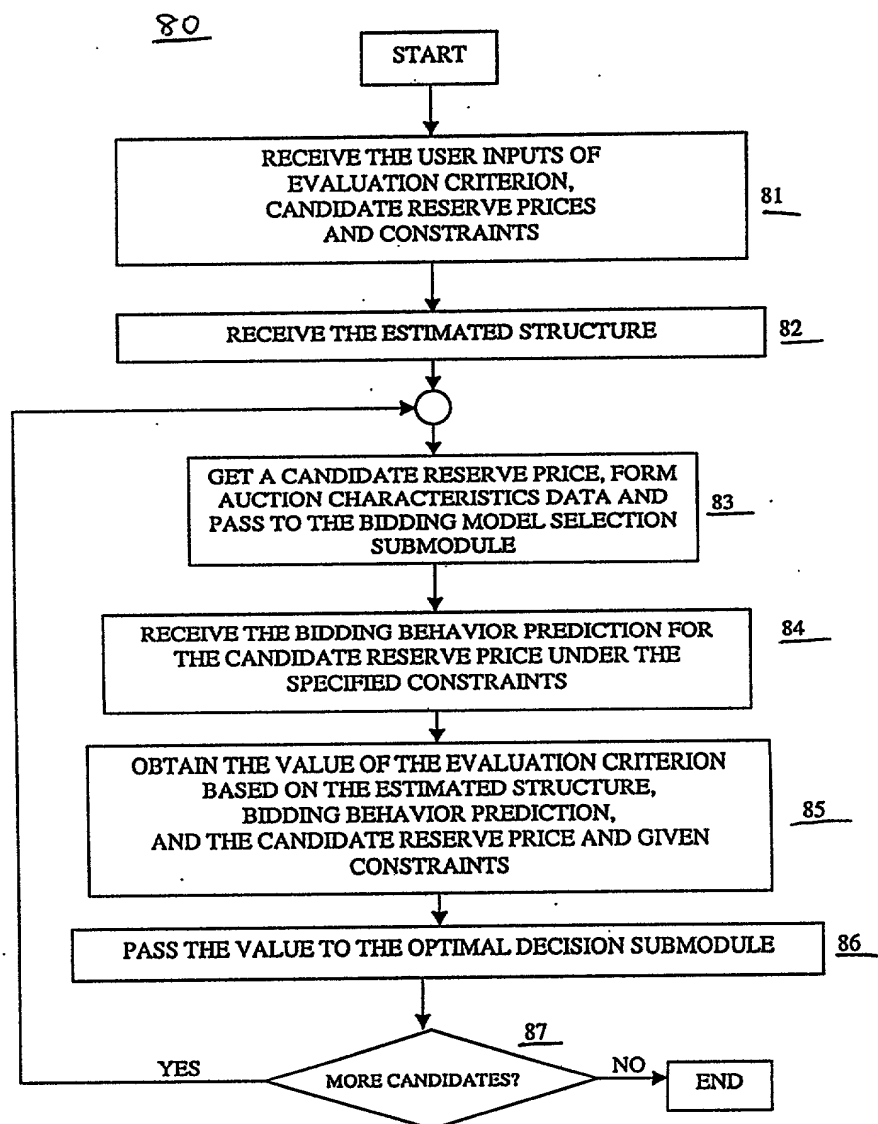


FIGURE 8

OPTIMAL DECISION SUBMODULE

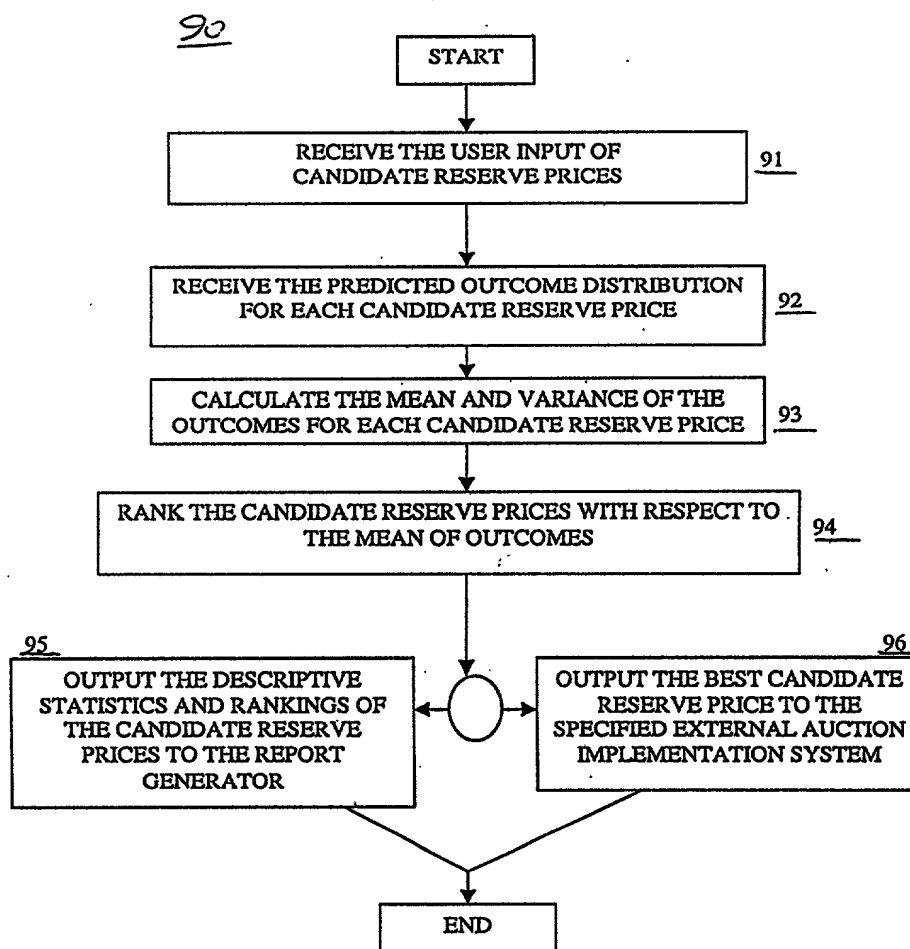


FIGURE 9

TOP SECRET 20250550

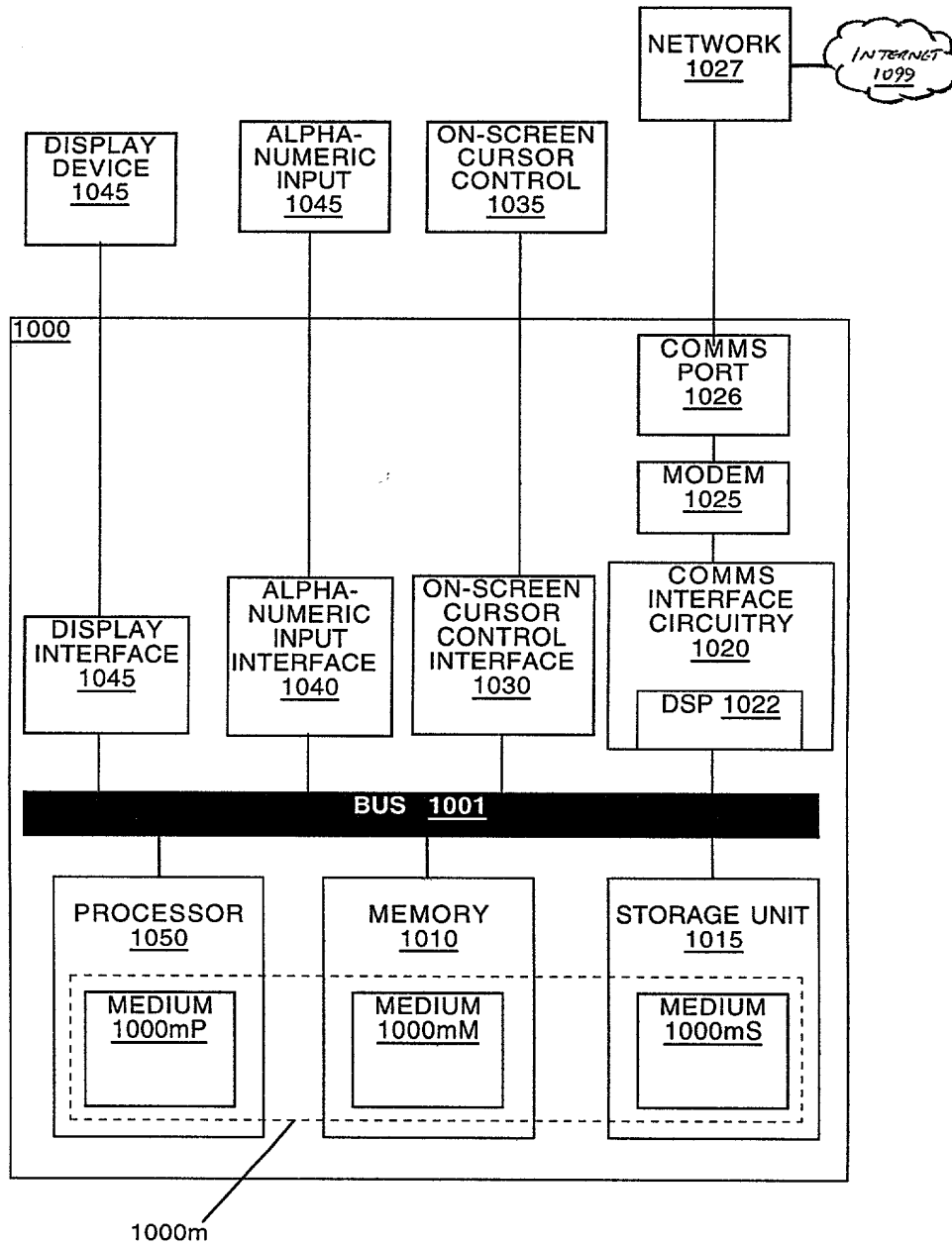


Figure 10

HISTORICAL AUCTION DATA REPOSITORY

Historical Auction Data Repository contains data on past auctions. For the purposes of present invention, we assume that the following variables are observed for each auction in the database.

Auction:

Auction ID

Further Auction Characteristics

Auctioned Item:

Item ID

Name

Quantity

Description

Further Item Characteristics

Mechanism:

Auction Format

Reserve price

Further Mechanism Characteristics

Bidders:

Bidder ID

Segment ID

Further Bidder Characteristics

Bids:

Identities of participating bidders

Bids submitted by participating bidders

Outcomes:

Assigned payments for each bidder

Assigned quantities for each bidder

FIGURE 11.A

09902928.071001

AUCTION CHARACTERISTICS:

Auction ID

Item ID

Item Name

Quantity

Dates:

Announcement

Start

Close

Seller/Buyer ID

Auction Mechanism Characteristics

Invited Bidders' IDs

Participating Bidders' IDs and Bids, Quantities

Outcome:

Assigned Price for each bidder

Assigned Quantities for each bidder

Fees:

Shipping & Handling

Taxes

Auctioneer Fees:

Posting Fee

Ad Valorem Fee

FIGURE 11.B

BIDS:

Bid ID

Auction ID

Item ID

Bidder ID

Bid Time Stamp

Price Bid

Bid Type

Proxy

Direct

Quantity Desired

Minimum Quantity

Currency

FIGURE 11.C

MECHANISM CHARACTERISTICS:

Format

English

Dutch

Scaled Bid First Price

Scaled Bid Second Price

Vickrey

etc

Buy/Sell

Entry Rule

Open

Free

Fee

Invitation

Free

Fee

Reserve Price

Secret

Open

Start Price

Bid Increment

Fixed

Relative

Closing Rule

Inactivity Time

Fixed Closing Time

FIGURE 11.D

ITEM CHARACTERISTICS:

Item ID
Name
Description
Location
SKU
Manufacturer
Model Number
Condition
Warranty
Weight
Weight Unit
Measurement Unit
Currency
List Price
etc

FIGURE 11.E

BIDDER CHARACTERISTICS:

ID
Segment ID
Name
Address
General Information
Socio Demographic Information
Etc

SELLER/BUYER CHARACTERISTICS:

Seller/Buyer ID
Name
Address
General Information
Socio Demographic Information
Etc

FIGURE 11.F

1200

Seller input

1201

Product:

ABlueCar

1202

Quantity:

1203

Seller's Valuation:

1204

Evaluation Criterion:

Expected profit

1205

Auction Format:

English

1206

Number of Bidders:

1

1207

Reserve Price Range:

 TO

Submit

Reset

1208

1209

FIGURE 12

1300

RESERVE PRICE REPORT

1310 INPUTS:

Product:	ABlueCar
Quantity:	1
Seller's Valuation:	\$10
Evaluation Criterion:	Expected Profit
Auction Format:	Sealed-bid first-price
Number of Bidders:	5
Reserve Price Range:	\$0 TO \$100

1320 RESULTS:

1321	Reserve price (in dollars)	0	10	20	30	...
1322	Expected payoff (in dollars)	60	75	80	70	...
1323	Standard deviation of payoff (in dollars)	15	17	20	25	...

1330

OPTIMAL DECISION:	
Optimal Reserve Price:	\$20
Expected Payoff:	\$80
Standard Deviation of Payoff:	\$20

FIGURE 13

Analysis - Reserve Price

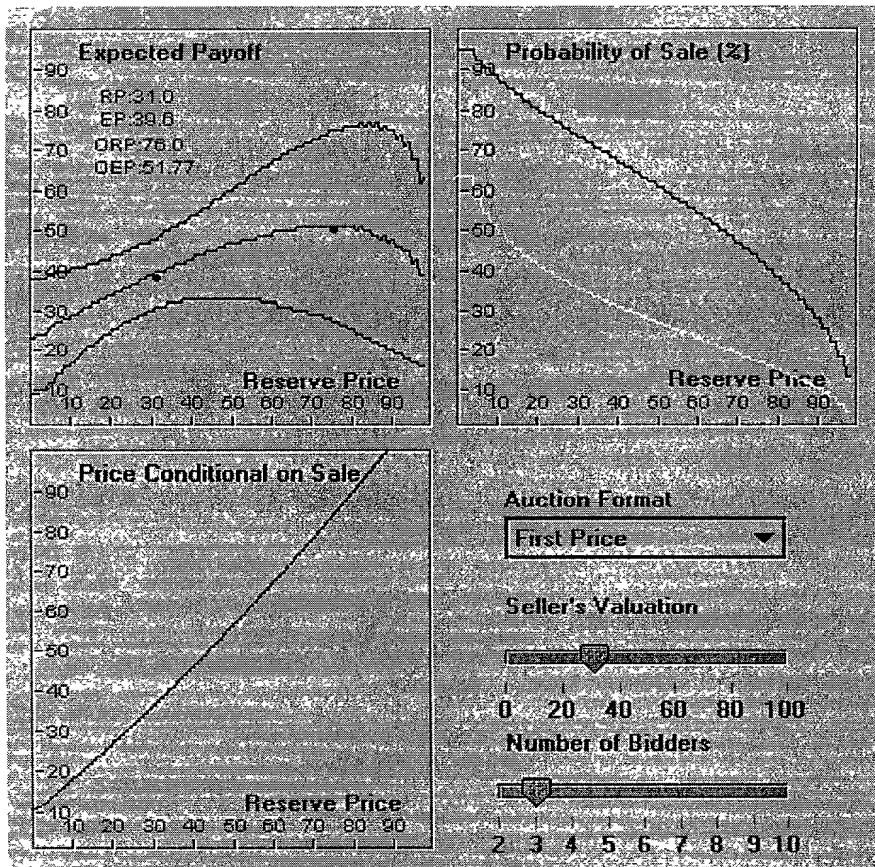


FIGURE 14

150

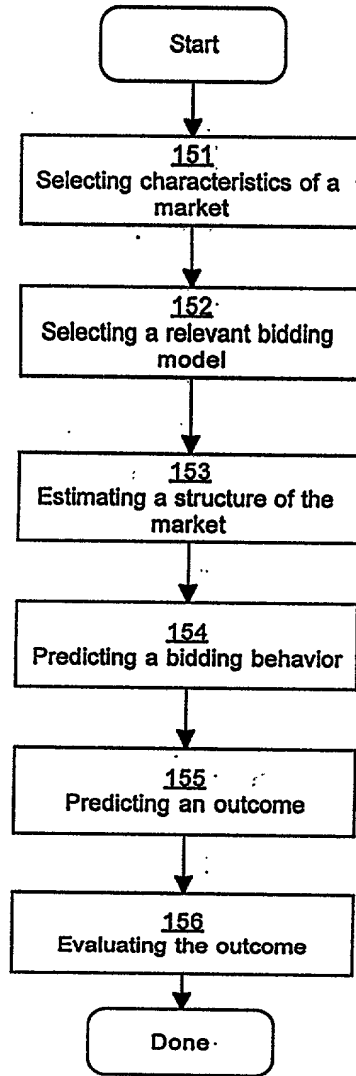


Fig. 15